19

Pat 1
3152
5122

JOURNAL

OF THE

American Veterinary Medical Association

FORMERLY

AMERICAN VETERINARY REVIEW

Original Official Organ U. S. Vet. Med. Ass'n.

Edited and Published for the

AMERICAN VETERINARY MEDICAL ASSOCIATION

By

H. PRESTON HOSKINS, CHICAGO, ILL.

EXECUTIVE BOARD

R. S. MacKellar, Member-at-Large and Chairman;
N. F. Williams, ex officio; R. R. Dykstra, ex officio;
A. E. Cameron, 1st District; E. P. Althouse, 2nd District; L. A. Merillat, 3rd District;
C. A. Cary, 4th District; C. P. Fitch, 5th District; L. M. Hurt, 6th District;
C. H. Hays, 7th District; J. C. Flynn, 8th District; H. W. Jakeman, 9th District;
O. V. Brumley, 10th District.

Volume LXXXII

NEW SERIES VOLUME 35

JANUARY, 1933, to June, 1933

CHICAGO, ILL.

1933

SF601
.A5

INDEX OF AUTHORS

Anderson, G. W., 258.
Barger, E. H., 84.
Barto, L. R., 250.
Beach, B. A., 565.
Beaudette, F. R., 460.
Bethke, R. M., 476.
Biester, H. E., 79.
Brown, H. W., 190.
Bullard, J. F., 774, 927, 927.
Bunyea, Hubert, 772.
Butler, W. J., 309.
Cary, C. A., 355.
Chandler, Wallace L., 95.
Cherrington, V. A., 55.
Cobbett, N. G., 780.
Creech, G. T., 503.
Crisler, Robert, 94.
Davis, C. L., 928.
Delaplane, John P., 772.
Dikmans, G., 739, 741, 855, 862.
Dimock, W. W., 718.
Donham, C. R., 46, 327, 913.
Edwards, P. R., 718.
Emmel, M. W., 562.
Feldman, William H., 104, 875.
Fitch, C. P., 46, 913.
Frick, E. J., 732.
Frost, W. D., 345.
Gildow, E. M., 55.
Gomez, Angel K., 108.
Graham, Robert, 76, 749, 871.
Hadley, F. B., 345.
Hagan, W. A., 391.
Hansen, H. C., 55.
Hanson, Karl B., 12.
Harrington, C. F., 492.
Hastings, E. G., 565.
Hinshaw, W. R., 111, 922.
Horning, J. G., 851.
Houck, U. G., 509.
Howell, C. E., 100.
Hudson, C. B., 218, 460.
Ives, L. D., 480.
Johnson, E. P., 258.
Jones, F. S., 818.
Jungherr, Erwin, 243.
Kelser, R. A., 151, 767.
Knilans, A. J., 778.
Little, Ralph B., 818.
Lytle, W. H., 726.
McCarter, Janet, 565.
McCoy, J. E., 557.
McGrath, C. B., 627.
McGroarty, B. J., 256, 627.
McKenney, Frank D., 65.
McNutt, G. W., 557.
Malcolm, Peter, 293.
Marsh, Hadleigh, 584, 753.
Mayo, N. S., 736.
Merchant, I. A., 630.
Merillat, L. A., 547.
Miller, S. T., 931.
Miller, W. T., 587.
Mitchell, W. C., 780.
Moguel M., Francisco, 299.
Mollin, F. E., 432.
Morley, L. C., 826.
Munce, T. E., 318.
Murray, Chas., 79.
Nordby, Julius E., 901.
Olson, Carl, Jr., 875.
Orr, F. H., Jr., 562.
Palmer, C. C., 694.
Quin, A. H., Jr., 707.
Records, Edward, 608.
Reichel, John, 376.
Rettger, Leo F., 452.
Rosell, J. M., 587.
Schlingman, A. S., 164.
Schneider, J. E., 256, 376, 627.
Schnelle, Gerry B., 776.
Schoening, H. W., 503.
Seaman, H. J., 205.
Shahan, M. S., 928.
Shaw, J. N., 199.
Shoeman, J. D., 707.
Skidmore, L. V., 627.
Slatter, E. E., 76.
Stiles, Geo. W., Jr., 928.
Stuart, Homer O., 772.
Stubbs, E. L., 232.
Tamblyn, D. S., 34.
Taylor, T. J., 922.
Thorp, Frank, Jr., 749, 871.
Torrey, J. P., 84.
Underwood, Paul C., 256.
Van Es, L., 407.
Vawter, Lyman R., 608.
Volkmar, Fritz, 617.
Warren, D. M., 309.
Wight, A. E., 420.
Wilson, I. D., 826.
Wisnicky, Walter, 565.
Witter, J. F., 631.
Zeissig, Alexander, 391.

LIST OF ILLUSTRATIONS

TESTS OF THE EFFICACY OF SINGLE TREATMENTS WITH TRACHIAL BRUSHES IN THE MECHANICAL REMOVAL OF LUNGWORMS FROM FOXES, 12.

FIG. 1. Tracheal swab-syringe and parts, 13.

FIG. 2. Home-made tracheal brush and parts, 15.

FIG. 3. The first assistant placed the fox on an operating-table, 16.

FIG. 4. The operator inserted the nozzle of the tracheal swab-syringe into the laryngeal opening, 17.

FIG. 5. The trachea describes an angle as it enters the thoracic cavity, 18.

FIG. 6. The handle of the brush was bent, 19.

FIG. 7. As the tube was withdrawn, the brush was slowly rotated, 20.

TREATMENT FOR MASTITIS WITH ULTRAVIOLET LIGHT, FORMALIN, COLLOIDAL CARBON AND AUTOGENOUS BACTERINS, 55.

FIG. 1. Graphs showing bacteria counts on the milk of cows affected with mastitis, 60.

FIG. 2. Graphs showing leucocyte counts on the milk of cows affected with mastitis, 61.

STUDIES IN INFECTIOUS ENTERITIS OF SWINE. VII. STUDIES ON THE USE OF COLLOIDAL IODIN IN SWINE COCCIDIOSIS, 79.

FIG. 1. Charts showing effect of colloidal iodin on oöcyst elimination, 81.

THE WHOLE-BLOOD, STAINED-ANTIGEN AGGLUTINATION TEST FOR PULLORUM DISEASE, 84.

FIG. 1. Box for stained-antigen, whole-blood test, 85.

FIG. 2. Artificial heat for stained-antigen test, 85.

FIG. 3. Collapsible table for stained-antigen test, 86.

FIG. 4. Sharp, blunt-pointed scissors for snipping comb, 87.

FIG. 5. Single drop of blood on microscope slide, 88.

FIG. 6. Single drop of antigen added, 89.

FIG. 7. Antigen and blood thoroughly mixed, 89.

FIGS. 8 and 9. Reading the test, 90.

FIG. 10. Table for identifying and restraining fowls, 91.

FIG. 11. Table with fowls removed, showing holding-blocks, 91.

FIG. 12. Equipment disassembled, 92.

CELL PROLIFERATION RESPONSE TO SULPHYDRYL ON AN EPITHELIAL DEFECT IN HORSES, 100.

FIG. 1. Appearance of summer sore before starting treatment, 101.

FIG. 2. Appearance of sore after third treatment, 102.

FIG. 3. Sore almost completely healed, 103.

TUBERCULOUS LESIONS OF THE EPICARDIUM OF A COW, 104.

FIG. 1. Multiple granulomatous nodules on the epicardium of the heart of a cow, 105.

FIG. 2. Histologic appearance of a tuberculous nodule of the epicardium, 107.

CARCINOMA TELEANGIECTATICUM OF THE TESTIS, 108.

FIG. 1. Carcinoma teleangiectaticum of the testis (horse), 109.

TUBERCULOSIS OF AVIAN ORIGIN IN MUSCOVY DUCKS, 111.

FIG. 1. Lesions of tuberculosis in the abdominal wall and liver of a duck, 112.

PHOTOGRAPH, DR. W. A. AXBY, 148.

STUDIES ON CANINE DISTEMPER, 164.

FIG. 1. Clinical charts of dog 42, 166.

FIG. 2. Clinical charts of dog 37, 168.

FIG. 3. Clinical charts of dog 9, 169.

FIG. 4. Clinical charts of dog 10, 170.

FIG. 5. Clinical charts of dog 11, 171.

FIG. 6. Clinical charts of dogs 47 and 48, 172.

FIG. 7. Clinical charts of dog 49, 173.

FIG. 8. Clinical chart of dog 65, 175.
FIG. 9. Clinical charts of dogs 50 and 51, 176.
FIG. 10. Clinical chart of dog 28, 178.
FIG. 11. Clinical charts of dog 7, 180.
FIG. 12. Clinical charts of dog 8, 182.
FIG. 13. Clinical chart of dog 53, 183.
FIG. 14. Clinical charts of dog 52, 184.

A LIVER FUNCTION TEST IN SHEEP, 199.
FIG. 1. Blood samples from two sheep, 200.
FIG. 2. Liver of sheep 5, from which 255 flukes were recovered, 201.
FIG. 3. Section of liver of sheep 5, 202.

STAPHYLOCOCCAL ARTHRITIS IN TURKEYS, 243.
FIG. 1. Leg of turkey, arthritis of hock joint (x ⅓), 245.
FIG. 2. Hock joint of turkey, 246.
FIG. 3. Section of hock joint (x 100), 247.
FIG. 4. Section of hock joint (x 1800), 247.

CRANIAL NERVE PARALYSIS, 250.
FIG. 1. Case 1, on thirteenth day of illness, 251.
FIG. 2. Case 1, recovered, 53 days after onset of illness, 252.
FIG. 3. Case 2, on fifth day of illness, 253.

A CASE OF HYDRONEPHROSIS IN A DOG, 256.
FIG. 1. Kidney of dog, showing hydronephrosis, 257.

PHOTOGRAPH, TWO WELL-KNOWN AMERICANS (DR. M. JACOB AND PRESIDENT FRANKLIN D. ROOSEVELT), 544.

BULLA-OSTEOTOMY IN THE CAT, 557.
FIG. 1. Ventral view of the skulls of a cat and a fox terrier, 558.
FIG. 2. Dissection showing the ventral view of the head and anterior portion of the neck of a cat, 559.
FIG. 3. Deeper dissection of the head shown in fig. 2, 560.

PHOTOGRAPH, GRAND BALL ROOM, PALMER HOUSE, 607.

HENRY JOHNSON DETMERS, 617.
PORTRAIT, H. J. DETMERS, 618.

A METHOD OF PRESERVING ACTINOMYCES BOVIS IN ITS "RAY FUNGUS" FORM, 630.
FIG. 1. *Actinomyces bovis*, unstained (x 410), 630.

THE DEFENSE MECHANISM IN A CASE OF TRAUMATIC PERICARDITIS IN A COW, 631.
FIG. 1. Right side of heart showing pericardium from cow with traumatic pericarditis, 632.
FIG. 2. Cross section of the left wall of the heart, 633.

PORTRAIT, DR. JOHN C. MEYER, 670.

CONVENTION EXHIBITS, 686.
PHOTOGRAPH, EXHIBIT BOOTH AT PALMER HOUSE, 686.

IDIOPATHIC HEMORRHAGIC HEPATITIS OF SWINE, 707.
FIG. 1. Idiopathic hemorrhagic hepatitis, 708.
FIG. 2. Typical liver, showing hypertrophy and variegated, "speckled" appearance, 709.
FIG. 3. Three lobules showing typical lesions of hemorrhagic hepatitis (x 125), 712.
FIG. 4. Margin of lobule from figure 3 (x 475), 712.

PHOTOGRAPH, FOYER, PALMER HOUSE, CHICAGO, 717.

THE RAPID SPREAD OF BANG'S DISEASE IN AN ACCREDITED HERD, 749.
FIG. 1. Chart showing destructive course of Brucella infection in a herd of dairy cattle, 750.

EXPERIMENTAL ERYSIPELOTHRITIC ARTHRITIS IN LAMBS, 753.
FIG. 1. Sheep A-107, at different stages of chronic arthritis, 755.
FIG. 2. Infected yearling and healthy yearling, 757.
FIG. 3. Field case of chronic erysipelothritic arthritis, 760.
FIG. 4. Arthritis resulting from inoculation of umbilical cord, 760.
FIG. 5. Chronic arthritis resulting from inoculation of umbilical cord, 760.
FIG. 6. Arthritis resulting from exposure of docking wound, 760.

A PRELIMINARY REPORT OF AN APPARENTLY NEW RESPIRATORY DISEASE OF CHICKENS, 772.
FIG. 1. Bird suffering from rhinosinusitis infection, 773.

AN EXTREME CASE OF URINARY CALCULI IN A LAMB, 774.
FIG. 1. Urinary calculi, 775.

POSTTONSILLAR FIBROSARCOMA IN A DOG, 776.
FIG. 1. Fibrosarcoma in a dog (x 550), 777.
FIG. 2. Same (x 1190), 777.

AN EASY METHOD OF SUPPLYING IRON AND COPPER TO BABY PIGS, 778.
FIG. 1. Mechanical contrivance for administering iron and copper solution, 778.
FIG. 2. Brood sow dragging udder over felt-covered roller, 779.

ANAPLASMOSIS, 862.
FIG. 1. Plan of experiment barn at Jeanerette, La., 868.

THE PATHOLOGY OF SPONTANEOUS LEUKOSIS OF CHICKENS, 875.
FIG. 1. Typical attitude of a chicken affected with leukosis, 881.
FIG. 2. Liver and spleen from a chicken affected with spontaneous erythroleukosis, 883.
FIG. 3. Multiple hemorrhagic foci in the mucosa of the small intestine, 884.
FIG. 4. Several erythroblasts in blood-smear prepared from a case of spontaneous erythroleukosis, 887.
FIG. 5. Numerous immature myeloblastic cells in a blood-film prepared from a case of experimental myeloid leukosis, 887.
FIG. 6. Liver of a chicken which died as a consequence of spontaneous erythroleukosis, 891.
FIG. 7. Blood-films of chickens affected with leukosis, 891.

CRYPTORCHIDISM AND ITS ECONOMIC IMPORTANCE TO THE PRODUCER OF SWINE AND PROCESSOR OF PORK PRODUCTS, 901.
FIG. 1. Cryptorchid pig that did not show sexual development when he was nine months of age, 906.
FIG. 2. Cryptorchid seminiferous tubules with characteristic protoplasmic degeneration, 910.

A METHOD FOR THE PREPARATION OF ANTIGEN FOR THE RAPID AGGLUTINATION TEST FOR BANG'S DISEASE WITH A TECHNIC FOR CONDUCTING SUCH TEST, 913.
FIG. 1. Capillary centrifuge-tube, 915.
FIG. 2. Test-box open, 919.
FIG. 3. Test-box closed, 920.

A CHRONIC CARRIER OF FOWL TYPHOID OF TURKEYS, 922.
FIG. 1. Ovary from turkey hen T-81, showing diseased ova, 924.

PHOTOGRAPH, TRAVEL AND TRANSPORT BUILDING, CENTURY OF PROGRESS EXPOSITION, CHICAGO, 937.

INDEX OF SUBJECTS

Abstracts:

Alexine dans le Renforcement de la Virulence Microbienne (The Rôle of Alexin in Augmenting the Virulence of Microörganisms), Le Rôle de l', 932.

Ancylostoma Caninum, Prenatal Infection with the Dog Hookworm, 643.

Ancylostoma Caninum, The Relation of Diet to the Susceptibility of Dogs to, 120.

Anthelmintic Tests of Chlorinated Alkyl Hydrocarbons and a Correlation Between the Anthelmintic Efficacy, Chemical Structure and Physical Properties, Critical, 121.

Anthrax-Infected Dried Hides in the Dry Condition by Means of Hydrogen Sulfid, The Disinfection of, 124.

Antitetanique en Médecine Vétérinaire (Antitetanic Vaccination in Veterinary Medicine), La Vaccination, 263.

Ascaridia Lineata, in Chickens? Does Yeast Affect the Growth and Infectivity of the Nematode, 786.

Ascaris Larvae as a Cause of Liver and Lung Lesions in Swine, 639.

Ascaris Lumbricoides, The Appearance and the Significance of the Unfertilized Eggs of, 124.

Avortement Epizootique, a Brucella chez les Porcs au Denemark (The Brucella Type of Epizoötic Abortion in Swine in Denmark), L', 266.

B. Coli, Changes in the Blood Associated with Fever Induced by Killed, 120.

BCG Outside of France, Vaccination with, 265.

Bronchitis, Carriers of Infectious, 787.

Brucella Melitensis (Undulant Fever of Bovine Origin Due to *Brucella Melitensis*), Le Fièvre Ondulante d'Origine Bovine a, 934.

Brucella Suis, Pasteurization of Milk Artificially Infected with Two Strains of, 788.

Cocaine and Novocaine at Different pH Levels, The Response of the Isolated Intestine to, 786.

Coccidial Oöcysts, A Simple Method for the Study of the Sporulation of, 123.

Colon, Experimental Inflammation of the, 122.

Dyes in the Treatment of Mastitis. Mastitis. II. The Use of Certain, 791.

Eclampsia and Those Caused by Raising the Intra-Abdominal Pressure, The Hepatic Lesions Associated with, 785.

Eczema, ses Relations avec l'Anaphylaxie et l'Insuffisance Hepatique (Eczema, Its Relations with Anaphylaxis and Hepatic Insufficiency), L', 935.

Elevage, Tenue a Leipzig du 3 au 6 Octobre, 1931 (Sixth Conference of German Veterinarians, for the Campaign Against Diseases of Reproduction, Held at Leipzig, October 3-6, 1931), Sixième Assemblée des Vétérinaires Allemands, pour la Lutte contre des Maladies de l', 262.

Encephalomyelitis, Equine, 785.

Fluid, The Effects Observed Following the Intravenous and Subcutaneous Administration of, 787.

Fowl-Pox, A Histochemical Study by Microincineration of the Inclusion-Body of, 788.

Fruchtwässer und Föten Gesunder Pferde und Rinder (A Study of the Bacterial Content of the Amniotic Fluid and Feti of Healthy Horses and Cattle), Uber den Keimgehalt der, 936.

Gongylonema of Ruminant Origin, Some Cross-Transmission Experiments with, 786.

Hematopoietic Effect of Nuclear Extractives Obtained from Red Blood Cells of the Fowl, 790.

Hemophilie chez un Chien (The Treatment of a Case of Hemophilia in a Dog), Traitement d'un Cas d', 265.

Hog Cholera, Histological Studies on. II. Lesions of the Vascular System, 123. III. Lesions in the Various Organs, 124.

Hookworms, The Effect of a Deficient Diet on the Susceptibility of Dogs and Cats to Non-Specific Strains of, 121.

Hydrogen Sulfid, The Disinfection of Anthrax-Infected Dried Hides in the Dry Condition of Means of, 124.

Hypercalcemia in Dogs, The Use of Basic Sodium Phosphate as an Antidote for, 641.

Immunity in Swine, The Maternal Transmission of Vaccinal, 640.

Iodinated Sera, Serological Studies on. I. Precipitins and Precipitinogens, 639. II. Anaphylaxis, 639.

Leukemic Chickens, Transfusion Experiments with the Blood of, 642.

Lipoid Fractions from Acid-Fast Bacilli, The Cellular Reactions to, 640.

Liver, Experimental Pathology of the. X. Restoration of the Liver of the Domestic Fowl, 790.

Mastitis. II. The Use of Certain Dyes in the Treatment of Mastitis, 791.

Microincineration of the Inclusion-Body of Fowl-Pox, A Histochemical Study by, 788.

Milk from Infected Udders, Streptococcus Infection in Man Caused Through the Medium of, 638.

Myxosarcoma in Adult Ducks, The Propagation of the Fujinami Fowl, 789.

Naufrageurs du Progrés (The Wreckers of Progress), Les, 264.

Negri Body, Studies on the Nature of the, 641.

Nutrition on Susceptibility to a Bacterial Toxin, The Influence of, 122.

Ochronosis in Cattle, 790.

Osteoporosis and Ostitis Fibrosa, Ammonium Chlorid Decalcification, as Modified by Calcium Intake: The Relation Between Generalized, 640.

Pancreatic Enzymes on the Tubercle Bacilli, Effects of, 641.

Pasteurella Tularensis, A Natural Infection of the Sharp-Tailed Grouse and the Ruffed Grouse by, 788.

Pasteurization of Milk Artificially Infected with Two Strains of *Brucella Suis*, 788.

Pigment in the Sweat and Urine of Certain Sheep, A, 123.

Pleuropneumonia Virus, Growth and Metabolism of the Bovine, 122.
Quinidine on the Heart in the Normal Unanesthetized Dog, The Action of, 638.
Sarcoma No. 1 in Ducklings, The Propagation of the Rous, 789.
Streptococcus Infection in Man Caused Through the Medium of Milk from Infected Udders, 638.
Toxin, The Influence of Nutrition on Susceptibility to a Bacterial, 122.
Tubercle Bacilli, Effects of Pancreatic Enzymes on the, 641.
Tuberculosis in Cattle in Great Britain, Avian, 937.
Typho-Anémie Infectieuse de Cheval (The Diagnosis of Infectious Anemia of the Horse), Diagnostic de la, 933.
Water Intake, Studies on the Regulation of. I. The Effect of Extirpation of the Salivary Glands on the Water Intake of Dogs While Panting, 642. II. Conditions Affecting the Daily Water Intake of Dogs as Registered Continuously by a Potometer, 642.
Yeast Affect the Growth and Infectivity of the Nematode, *Ascaridia Lineata*, in Chickens? Does, 786.

Army Veterinary Service:

Changes Relative to Veterinary Officers, 125, 267, 540, 644, 792, 938.

Association News:

American Veterinary Medical Association:

Affiliation Proposal, 7, 146, 545.
Applications for Membership, 7, 149, 291, 545, 691, 814.
Appointments, 690.
Committee on Local Arrangements, 189.
Executive Board Elections, 7, 290, 542, 687, 813.
Financial Report — Dr. M. Jacob, Treasurer, 650.
Organization of the American Veterinary Medical Association, 1932-1933, 127, 189, 651, 690.

U. S. Live Stock Sanitary Association:

Address of the President, The, 293.
Election of Officers, 526.
Installation of Officers, 526.
Resolution on Death of Dr. W. F. Crewe, 419.

Reports:

Bangs' Disease, Committee on, 335.
Legislation, Committee on Special, 527.
Meat and Milk Inspection, 355.
Parasitic Diseases, Committee on, 517.
Pullorum Disease in Barnyard Fowl, Standard Methods of, 487.
Secretary - Treasurer, Financial Statement, 539.
Tick Eradication, Committee on, 524.
Transmissible Diseases, Committee on Miscellaneous, 388.
Transmissible Diseases of Poultry, Committee on, 487.
Transmissible Diseases of Swine, Committee on, 515.
Tuberculosis, Committee on, 528.

Other Meetings:

Arkansas Veterinary Medical Association, 662.
California Veterinary Conference, 278.
Central New York Veterinary Association, 131.
Cornell Conference for Veterinarians, 795.
Delaware Veterinary Medical Association, 665.
East Tennessee Veterinary Medical Society, 802.
Kansas Veterinary Medical Association, 663.
Linn County Veterinary Association, 803.
Long Island Veterinary Medical Association, 279.
Louisiana Veterinary Medical Conference, 801.
Manitoba, The Veterinary Association of, 667.
Maryland State Veterinary Medical Association, 268.
Michigan-Ohio Veterinary Medical Association, 132.
Minnesota State Veterinary Medical Association, 658.
Nebraska State Veterinary Medical Association, 273.
Nevada State Veterinary Association, 665.
New England Veterinary Medical Association, 133.
New Jersey, Veterinary Medical Association of, 660.
New Mexico Veterinary Medical Association, 802.
North Carolina State Veterinary Medical Association, 280.
Ohio State Veterinary Medical Association, 658.
Oklahoma Veterinary Medical Association, 656.
Pennsylvania Veterinary Conference, University of, 276.
Philippine Veterinary Medical Association, 799.
South Eastern Wisconsin Veterinary Association, 132.
Southern Ohio Veterinary Association, 803.
Texas, State Veterinary Medical Association of, 653.
West Central Ohio Veterinary Medical Association, 655.
Western Michigan Veterinary Medical Association, 654.
Western New York Veterinary Medical Association, 137.

Births.....681, 808, 943

Book Reviews:

Bau Normaler Und Durch Calcium-Und Phosphorarme Nahrung Veränderter Rinderknocken (Investigations on the Structural Changes in the Bones of Normal Cattle and of Cattle Receiving Calcium- and Phosphorus-Deficient Diets), Untersuchengen Über Den, 115.
Mammalogy, Economic, 117.
Milchkunde (Milk Science), 636.
Obstetrics, Practical, 782.
Pathology and Bacteriology, Veterinary, 118.
Peste Bovine (Rinderpest), La, 783.
Poultry, Infectious Diseases of, 114.
South Africa, Animal Diseases in, 260.

Clinical and Case Reports:

Actinomyces Bovis in Its "Ray Fungus" Form, A Method of Preserving, 630.
Blackleg, Simultaneous Infection of Cow and Fetus with, 256.
Calculi in a Lamb, An Extreme Case of Urinary, 774.
Carcinoma Teleangiectaticum of the Testis, 108.
Coccidioidal Granuloma in Cattle in Colorado, 928.
Coccidiosis Due to *Eimeria Canis*, Canine, 627.
Entropion Operation in Foals, 927.
Fibrosarcoma in a Dog, Posttonsillar, 776.
Fowl-Typhoid in Guinea Fowls (*Numida Meleagris*), An Outbreak of, 258.
Fowl Typhoid of Turkeys, A Chronic Carrier of, 922.
Hydronephrosis in a Dog, A Case of, 256.
Iron and Copper to Baby Pigs, An Easy Method of Supplying, 778.
Obstetrics and a Motor Truck, Bovine, 931.
Oestrus Ovis, Notes on the Life Cycle of, 780.
Paralysis, Cranial Nerve, 250.
Parturient Paresis, A Complicated Case of, 927.
Pericarditis in a Cow, The Defense Mechanism in a Case of Traumatic, 631.
Rabies from Mother to Young, Transmission of Experimental, 627.
Respiratory Disease of Chickens, A Preliminary Report of an Apparently New, 772.
Sulphydryl on an Epithelial Defect in Horses, Cell Proliferation Response to, 100.
Tuberculosis of Avian Origin in Muscovy Ducks, 111.
Tuberculous Lesions of the Epicardium of a Cow, 104.

Communication:

Santa Fe to the Front, 649.

Editorials:

Affiliate, Two More States Vote to, 7, 545.
Affiliation Proposal Ratified, 146.
Americans, Presenting Two Well-Known, 544.
Announcements, Two Important, 3.
Axby Dies, Vice-President, 148.
Clinics, Convention, 541.
College Casualty, First, 690.
Colleges, Problems for Our, 145.
Economy, False, 684.
Exhibits, Convention, 686.
Fifty Years of Useful Service, 683.
Flynn Elected, Doctor, 147.
Hog Cholera, One Hundred Years of, 1.
Legislation and Other Things, 287.
Letters, Interesting, 3.
Meat Hygiene, 691.
Mohler Again Honored, Doctor, 814.
Nevada Joins the List, 543.
Ohio Veterinary Conference Postponed, 290.
Oldest Member Dies, 148.
Oldest Members, Our, 685.
Politics, Putting the Ban on, 811.
State Veterinarians, Three New, 813.
States in Line, Two More, 545.
Policy, A Shortsighted, 812.
Williams, Extended Itinerary for President, 6.

Examinations, State Board..693, 817

Marriages 143, 681

Meetings, Coming Veterinary....
.....9, 149, 292, 546, 692, 815

Miscellaneous:

Airplane Service to Chicago, 825.
Anniversaries, Golden, 583.
Anniversary, Golden Wedding, 738.
Anniversary, Michigan Golden, 794.
Arizona, New State Veterinarian for, 266.
Arsenical Sprays Endanger Consumers of Vegetables, 198.
Barnes Honored, Doctor, 648.
Bausch & Lomb Exihibit at World's Fair, 854.
Beshers Plan, The, 735.
Broadcast Animal Welfare Talks, 125.
Broadcasting Program, New York, 126, 766.
Bureau Transfers, 125, 803.
California Has New State Veterinarian, 771.
Cat, Man Bites, 231.
Cattle and Sheep on Feed in U. S., 564.
Cattle on Feed in April, More, 921.
Celebrate? Why Not, 794.
Century of Progress Live Stock and Meat Exhibits, 33.
Century of Progress, Visitors at the, 586.
Chicago, Look This Up When You Come to, 740.
Christmas Dinner for Horses, 138.
Coöperation, 189.
Corn States in Larger Quarters, 794.
Cornell Conference Dates Fixed, 931.
"Cures," Condemns Worthless, 130.
Dates Changed, Meeting, 54.
Denmark, Handling Overproduction in, 870.
Dog and Cat Get $20,000, 78.
Dogs in New Jersey, Wild, 586.
Dogs, My, 94.
Eggs Seized, Frozen, 249.
Errata, 940.
Fifty Years Ago, Over, 616.
Fish, Seize Worm-Infested, 267.
Foot-and-Mouth Disease in Europe, 648.
Horses Indicated, Increased Use of, 792.
Horsetail No Remedy for Diabetes, 163.
Illinois State Fair in August, 870.
Insects to Elephants, 794.
International Veterinary Congress, Twelfth, 645.
Iodin Production in California, 643.
Iowa Veterinary Medical Association Annual Meeting, 130.
K. S. C. Prizes, 939.
Lake County Accredited, 717.
Laws, Anti-Cropping, 794.
Live Stock Income vs. Crop Income, 54.

Massachusetts Changes Annual Meeting Date, 921.
Meat Inspection and County Agents, 649.
Medical Men Visit Veterinary School, 556.
Milk Production, Drop in, 45.
Money, What to Use for, 189.
Ohio Veterinary Conference Postponed, 290.
Oklahoma Veterinary Medical Examiners, New, 556.
Others See Us, As, 564.
Phi Zeta Initiates, 940.
Physicians and Veterinarians to Meet, California, 626.
Poem, Best Dog, 854.
Principle of the Thing, It's the, 752.
Quartet, A Famous, 644.
Rabies Quarantine in Michigan, 113.
Shannon Committee Reports, 635.
South Dakota, Report from, 231.
Sows to Farrow in 1933, More, 231.
State, A Veterinarian as Secretary of, 793.
State Veterinarians, New, 291.
Swine in England and Wales, More, 652.
Telephones and Veterinarians, 740.
Trichinosis, Ask Damages for, 83.
Tuberculosis Death Rate Down, 75.
Work for Your Profession, 850.
World's Fair, Financing the Chicago, 792.
World's Fair for $80, Visit, 33.
Youngberg in New Rôle, 771.

Necrology:

Adee, James F., 142.
Axby, William Allen, 148, 668.
Beer, John L., 142.
Bevan, Arthur L., 806.
Bevins, Noel Orsin, 942.
Blackburn, Herbert Lawrence, 679.
Blinzley, John Franklin, 285.
Blomquist, Carl Albert, 673.
Bosley, Harry, 282.
Bradley, John Lindsay, 674.
Broerman, Alvin, 805.
Brown, Herbert H., 283.
Brown, Lyman D., 282.
Buffington, Ralph M., 941.
Burdick, Alfred Stephen, 676.
Caldwell, George R., 804.
Coote, Henry L. B., 807.
Crewe, Wilton F., 139.
Deiling, N. J., 804.
Dilley, Ira, 679.
Erbach, William A., 673.
Evans, Maurice E. J., 674.
Gordon, Reuben, 805.
Graham, Oswald Hood, 283.
Grimes, William P., 141.
Groff, William E., 805.
Hanna, Robert Lee, 141.
Hayes, John J., 284.
Henry, Michael F., 674.
Howard, Samuel R., 284.
Kelpe, Henry O., 281.
Kerr, George S., 676.
Kjerner, Rudolph, 675.
Lambert, Fonsa Allan, 680.
Lang, Edward M., 678.
Langtry, Walter, 284.
LeFevre, Daniel D., 281.
Longnecker, Allen O., 942.
Lynch, George Perry, 281.
McCarthy, Frank H., 677.
McNair, Ernest, 805.
Malone, William J., 676.
Menestrina, Theodore J., 807.
Meyer, John C., 670.
Pelsue, Owen E., 673.
Playdon, Calvert H., 808.
Powell, Joseph Steven, 804.
Power, Clinton W., 675.
Rey, Charles R., 283.
Ross, Lee F., 806.
Schroeder, E. W., 140.
Snyder, E. D., 678.
Strock, Addison M., 143.
Turner, W. George, 941.
Vasellus, George Gustav Emil, 676.
Viles, Jesse A., 675.
Vliet, George B., 141.
Watson, Thomas W., 678.
Waugh, James Alexander, 672.
Wisman, Eli C., 142.
Wood, George D., 282.

Papers:

Agglutination Test for Bang's Disease, Some of the Things We Should Recognize Concerning the, 327.
Agglutination Test for Bang's Disease with a Technic for Conducting Such Test, A Method for the Preparation of Antigen for the Rapid, 913.
Agglutination Test for Pullorum Disease, The Whole-Blood, Stained-Antigen, 84.
Agglutination Test for Swine Erysipelas, An, 503.
Agglutination Tests for Bang's Disease, A Discussion of Some Fundamental Principles and Practices Underlying the Application of the, 46.
Agglutination Tests to the Bacteriology and Pathology of the Disease, Pullorum Disease. A Study of the Relationship of Repeated, 65.
Agglutination Titre of Cows Infected with Bang's Disease, Effect of Trypan Blue, Thionin and Pyronin on the, 76.
Agglutinins in Calves of Reactor Cows, The Persistence of Brucella, 871.
Alcohol-Milk Test to Pregnancy in Cattle, Relation of the, 694.
Anaplasmosis. I. Its Occurrence in Louisiana, 739. II. A Short Review and a Preliminary Demonstration of Its Identity in Louisiana, 741. III. A Further Experimental Demonstration of Its Indentity in Louisiana, 855. IV. The Carrier Problem, 862.
Anthrax Protection Tests, 376.
Army, The Practicing Veterinarian and His Relationship to the, 34.
Army Veterinary Service Be Improved in Future Engagements in the Light of Experiences of the World War? How Can the Operation of the, 151.
Arthritis in Lambs, Experimental Erysipelothritic, 753.
Arthritis in Turkeys, Staphylococcal, 243.

Bang's Disease, A Discussion of Some Fundamental Principles and Practices Underlying the Application of the Agglutination Tests for, 46.
Bang's Disease, Effect of Trypan Blue, Thionin and Pyronin on the Agglutination Titre of Cows Infected with, 76.
Bang's Disease in an Accredited Herd, The Rapid Spread of, 749.
Bang's Disease in Relation to Interstate Cattle, 318.
Bang's Disease, Some of the Things We Should Recognize Concerning the Agglutination Test for, 327.
Bang's Disease under Range or Semi-Range Conditions, Control of, 309.
Bang's Disease with a Technic for Conducting Such Test, A Method for the Preparation of Antigen for the Rapid Agglutination Test for, 913.
Brucella Agglutinins in Calves of Reactor Cows, The Persistence of, 871.
Bulla-Osteotomy in the Cat, 557.
Cats, The Hospitalization and Care of, 190.
Chlorin as a Disinfectant, Some Observations on, 95.
Coccidiosis, II, A Study of Bovine, 826.
Coccidiosis, Studies in Infectious Enteritis of Swine. VII. Studies on the Use of Colloidal Iodin in Swine, 79.
Cryptorchidism and Its Economic Importance to the Producer of Swine and Processor of Pork Products, 901.
Detmers, Henry Johnson (1833-1906), A Biographical Sketch and Character Study, 617.
Distemper: III. A Comparison of Natural and Experimental Virus Infections, Studies on Canine, 164.
Encephalomyelitis Antiserum, Equine, 608.
Encephalomyelitis, Mosquitoes as Vectors of the Virus of Equine, 767.
Enteritis of Swine. VII. Studies on the Use of Colloidal Iodin in Swine Coccidiosis, Studies in Infectious, 79.
Erysipelas, An Agglutination Test for Swine, 503.
Erysipelas in Swine Herds, Field Observations on, 492.
Erysipelothritic Arthritis in Lambs, Experimental, 753.
Erysipelothrix Rhusiopathiae of Ovine and Porcine Origin, The Serological Identity of Strains of, 584.
Feeder-Pig Problem, The, 509.
Foals, Infections of Fetuses and, 718.
Fowl-Pox in an Egg-Laying Contest, Observations on the Use of Pigeon-Pox Virus as a Cutaneous Vaccine for, 562.
Hepatitis of Swine, Idiopathic Hemorrhagic, 707.
Intravenous Therapy in Small Animals, 732.
Iodin in Swine Coccidiosis, Studies in Infectious Enteritis of Swine. VII. Studies on the Use of Colloidal, 79.
Johne's Disease, Studies on the Control of, 391.
Laryngotracheitis in Fowls, Experiments on Immunization Against, 460.
Leg Disorders Affecting Growing Chicks, Types of, 476.
Leucosis of Chickens, The Relation of Age, Breed, and Species to Susceptibility to Transmissible, 232.
Leukosis of Chickens, The Pathology of Spontaneous, 875.
Liver Function Test in Sheep, A, 199.
Lungworms from Foxes, Tests of the Efficacy of Single Treatments with Tracheal Brushes in the Mechanical Removal of, 12.
Mastitis, A Biological and Bacteriological Study of Bovine, 587.
Mastitis in a Herd of 100 Cows, A Six-Month Study of Bovine, 345.
Mastitis, The Correlation Between Certain Properties of Milk and the Type of Inflammation in Acute, 818.
Mastitis with Ultraviolet Light, Formalin, Colloidal Carbon and Autogenous Bacterins, Treatment for, 55.
Mexico, The Trend of the Animal Industry in, 299.
Mosquitoes as Vectors of the Virus of Equine Encephalomyelitis, 767.
Paratyphoid Infection in Turkeys, Endemic, 452.
Peace, Some Lessons of, 736.
Pigeon-Pox Virus as a Cutaneous Vaccine for Fowl-Pox in an Egg-Laying Contest, Observations on the Use of, 562.
Poultry Diseases as Evidenced by Data Obtained in Government Inspection Work, The Character and Extent of, 480.
Poultry Practitioner, Some of the Practical Problems of a, 205.
Pregnancy in Cattle, Relation of the Alcohol-Milk Test to, 694.
Pullorum Disease, A Study of the Relationship of Repeated Agglutination Tests to the Bacteriology and Pathology of the Disease, 65.
Pullorum Disease, The Whole-Blood, Stained-Antigen Agglutination Test for, 84.
Reserve Officers, Training Policies for Veterinary, 851.
Sheep, Pasture Diseases of, 726.
Streptococcus, A Specific Infectious Disease of Chickens Due to a Hemolytic, 218.
Tubercle Bacilli in Live Stock Sanitary Control Work, The Three Types of, 407.
Tuberculin-Reacting Cattle, A Detailed Study of No-Lesion, 565.
Tuberculosis Eradication Work, Progress of Coöperative, 420.
Tuberculosis-Free, Accrediting Range and Semi-Range Cattle as, 432.
War, Reminiscences of the World, 547.
Personals 143, 285, 681, 809, 943
Publications Received.....
.....119, 261, 637, 784